

# MADISON VOLPE

## Data Analyst

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## EXPERIENCE

### Senior Research and Data Associate

#### Center for Court Innovation

📅 June 2020 - Present    📍 New York, New York

- Data management and evaluation of NYC's Supervised Release Program (SRP).
- *Data management*: Conduct data entry trainings for new staff to ensure appropriate data entry into the program's case management system. Create and maintain audit queries using SQL to clean program data and ensure data integrity.
- *Analysis*: Create monthly and quarterly snapshot reports and dashboards in R and Tableau to evaluate the SRP program and identify trends in program outcomes. Conduct deep dive analyses every quarter using statistical techniques, such as logistic regression and survival analysis to further study the program's population.
- Provide quantitative and qualitative analysis for other projects at CCI as needed, for example an evaluation of NYC's Early Release Program.

### Data Analyst

#### New York City Office of Administrative Trials and Hearings (OATH)

📅 August 2019 - June 2020    📍 New York, New York

- Prepared nine monthly management reports for internal use, as well as for the Mayor's Office of Management and Budget.
- Developed processes to improve the efficiency of the agency's reporting. These processes included: Converting monthly reports from Excel to Tableau and developing R scripts to automate data cleaning and analysis.
- Designed new reports and created new KPIs for upper management. Advised on best practices for data collection and visualization.

### Data Analyst Intern

#### The Brennan Center for Justice

📅 May 2018 - August 2019    📍 New York, New York

- Gathered, cleaned, analyzed, and maintained datasets to advance the Justice Program's research on crime and incarceration in the United States.
- Created web scrapers and PDF parsers to accumulate data.
- Extracted data from SQLite databases and created interactive dashboards. Wrote queries for and maintained databases for various projects.
- Edited, administered, and analyzed surveys sent to court administrators. Utilized k-means and spatial clustering to gain insight from survey responses.

## EDUCATION

### MS Applied Statistics

#### New York University, GPA: 3.9

📅 2017 - 2019    📍 New York, New York

### BA Economics

#### Fairfield University, GPA: 4.0

📅 2013 - 2017    📍 Fairfield, Connecticut

## CERTIFICATIONS

### Tableau Certified Data Analyst

#### Tableau

📅 April 2022    📍 New York, New York

### Tableau Desktop Specialist

#### Tableau

📅 February 2020    📍 New York, New York

### Introductory Python Certificate

#### NYC Data Science Academy

📅 2018    📍 New York, New York

## PROJECTS

### The American Society of Criminology Conference

- Poster presentation at the 2021 ASC conference providing in-depth analysis of the pretrial detention population at Riker's Island.

### Integrating R with Tableau

- Presented to members of R-Ladies NYC on how to best integrate R and Tableau.

### R Package: *backpack*

- Received funding from NYU's Curricular Development Challenge Fund (CDCF) to continue the development of *backpack*, a package that supports package management and facilitates the curriculum of NYU's Applied Statistics Master's Program.

## SKILLS

- **R** - Data cleaning with *tidyverse*, web scraping, text analysis, machine learning (supervised and unsupervised), statistical modeling: general + generalized linear models, multilevel models, and causal inference.
- **Python** - Web scraping using *beautifulsoup*, building PDF parsers, *pandas*, *matplotlib*.
- **SQL** - Joins, window functions, sub queries, creating views, summary statistics using *GROUP BY*, *ROLLUP*.
- Data visualization in **Tableau** and **QGIS**.